

L 47318-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) JN/WW/JG/GG  
ACC NR: AR6025748 SOURCE CODE: UR/0058/66/000/004/A072/A072

AUTHOR: Starodubtsev, S. V.; Sinyukov, V. A.; Karimov, R. Kh.; Lyutovich, A. S. 47  
B

TITLE: Investigation of the distribution of phosphorus in silicon crystals by the tracer atom method 27 27 18

SOURCE: Ref. zh. Fizika, Abs. 4A608

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 37

TOPIC TAGS: crystal growing, silicon, crystal impurity, tracer analysis, phosphorus, twinning

ABSTRACT: The authors investigate the growing of crystals by the Czochralski method from Si, doped beforehand from the gas phase in the process of reduction of its chloride. The electrophysical parameters of the grown crystals are studied. The procedure for analyzing the distribution of P in the volume of the crystal by the radioactive tracer method is described. The question of the uneven distribution of the impurities in the volume of the crystal and the formation of so-called "canals" is discussed. The distribution of P on the twinning boundary is investigated.  
[Translation of abstract]

SUB CODE: 20

L 27909-66 EWT(m)/EWA(d)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/DJ  
ACC NR: AP6017714 SOURCE CODE: UR/0122/66/000/003/0069/0072

AUTHOR: Sipaylov, V. A. (Engineer); Yakimov, A. V. (Candidate of technical sciences);  
Potemkin, V. I. (Engineer); Ivanov, S. A. (Engineer)

ORG: none

TITLE: Phenomena which take place in the surface layer during grinding

SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 69-72

TOPIC TAGS: steel; case hardening, annealing, tempering, transmission gear, hardness, grinding, cold working, thermocouple, potentiometer, metallographic examination/12Kh2N4A steel

ABSTRACT: The combination of mechanical and thermal effects which accompany the grinding process causes a considerable change in the physical and chemical state of the surface layer in many cases which may reduce the bearing capacity of components; therefore, it is important to study the thermal processes which take place in the surface layer during grinding and to seek methods for controlling these processes.

Cylindrical spur gears ( $m = 3.85$  mm,  $z_k = 31$ ,  $\alpha' = 20^\circ$ ,  $b = 35$  mm) made from 12Kh2N4A steel were studied. The gears were case hardened to a depth of 1.1-1.3 mm at  $900^\circ$  centigrade, annealed at  $650^\circ$  C, double annealed at  $860 \pm 20^\circ$  C and at  $800 \pm 20^\circ$  C, cold-worked in liquid nitrogen and tempered at  $150 \pm 10^\circ$  C. The experiments were done on a Maag SS30Kh gear hob. An EB25M2K wheel was used for removing a decarburized layer of 0.1 mm in 10 passes at  $t = 0.008-0.01$  mm.

Card 1/3

UDC: 621.923

L 27909-66

ACC NR: AP6017714

$v_{kv} = 27 \text{ m/sec}$ ,  $s_{np} = 100 \text{ mm/min}$  and  $n = 225$  oscillations per minute. After preliminary grinding the experiments were done with the same wheel at  $t = 0.02$ , 0.04, 0.06 and 0.08 mm,  $s_{np} = 100, 200$  and 300 mm/min. The grinding wheels were checked for hardness and density before the experiments and trued on both sides and carefully balanced.

The actual temperature fields were concentrated in a region having a depth of 0.1-0.2 mm and were inaccessible to direct measurement. The temperature field was therefore simulated to clarify the nature of temperature distribution and its relationship to grinding conditions. The model was a unit which could be used for moving a carbon electrode along the surface of a 12Kh2N4A steel specimen. An electric current was sent through the contact area between the electrode and the specimen and the heat released was checked by measuring the electrical power. An EPP-09 potentiometer and a chromel-alumel thermocouple were used for recording the temperature field of the model.

Distribution of heat between the workpiece and the chip varies with the depth of cut. The amount of heat which goes to the chip may be disregarded for light cuts ( $t = 0.02 \text{ mm or less}$ ). This heat increases with cutting depth and at 0.1 mm is nearly 25% of the total heat for 12Kh2N4A steel. In spite of the insignificant difference in temperatures in the grinding zone between 0.02 and 0.1 mm, the structural transformations during grinding vary with cutting depth in this interval. Metallographic studies were confirmed by analysis.

Card 2/3

L 27909-66

ACC NR: AP6017714

Changes in microhardness revealed that structural transformations take place in the surface layer of carburized steels under the action of high temperatures during grinding. The temperature in the grinding zone must be lowered to reduce these structural transformations. This may be accomplished by reducing the severity of operating conditions (which is extremely undesirable since this also results in a sharp reduction in productivity) or by using sectional grinding wheels. Experiments on intermittent grinding at the Perm Polytechnical Institute indicate that thermal processes may be controlled and the quality of the surface layer may be improved by varying the size of the cutting sections on sectional wheels. Orig. art. has: 8 figures, 4 formulas and 1 table. [JPRS]

SUB CODE: 13, 20, 11 / SUBM DATE: none / ORIG REF: 005

Card 3/3 BLG

ACC NR: AR6030484

SOURCE CODE: UR/0275/66/000/006/B008/B008

AUTHOR: Starodubtsev, S. V.; Sinyukov, V. A.; Karimov, R. Kh.; Lyutovich, A. S.

TITLE: Investigation of phosphorus distribution in silicon crystals by the method of tagged atoms

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 6B54

REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 37

TOPIC TAGS: silicon single crystal, silicon semiconductor

ABSTRACT: The results are reported of an investigation of crystal growing by the Chokhral'skiy method from the silicon which was doped from the gas phase in the course of reduction of its chlorides. The results of a study of electrophysical parameters of grown crystals are described. A method of analysis of P distribution in a crystal, which uses radioactive tracers, is described. The problem of non-uniform distribution of impurities in the crystal and of formation of so-called "canals" is discussed. P distribution at twinning boundaries was studied. From the author's abstract [Translation of abstract]

SUB CODE: 09, 11

Card 1/1

UDC: 621.315.592:548.552:546.28

NATSVLISHVILI, A.A., kand.sel'skokhoz.nauk; SINYUKOV, V.P.; NASONOVA, M.V.,  
kand.sel'skokhoz.nauk; PALIY, V.F., prof.; KOTLYAR, V.V., mladshiy  
nauchnyy sotrudnik; LUPENKO, L.G.; DZIDZARIYA, O.M., nauchnyy  
sotrudnik

Brief information. Zashch. rast. ot vred. i bol. 8 no.8:55-57  
Ag '63. (MIRA 16:10)

1. Gruzinskiy institut zashchity rasteniy, Tbilisi (for Matsvlishevili).
2. Oblastnaya laboratoriya biometoda, Brailov, Vinnitskoy obl.  
(for Sinyukov).
3. Achikulakskaya lesnaya optytnaya stantsiya,  
Maykop (for Nasonova).
4. Sary-Chelekskiy zapovednik (for  
Paliy, Kotlyar).
5. Batayskiy opornyj punkt Vsesoyuznogo instituta  
zashchity rasteniy (for Lupenko).
6. Sukhumskaya optytnaya  
stantsiya efiromaslichnykh kul'tur (for Dzidzariya).

VOYT, S.S.; AKSENOV, D.A.; BOGORODSKIY, M.M.; SINYUKOV, V.V.; VLADIMIRTSEV,  
Yu.A.

Some circulation characteristics of waters of the Black Sea and  
their regime in the Bosporus region. Okeanologiya 1 no.4:613-625  
'61. (MIRA 14:11)

1. Morskoy gidrofizicheskiy institut.  
(Black Sea--Ocean currents)

SINYUKOV, V.V.

Determination of nitrates, silicates, and phosphates in sea water  
by the use of the FEK-M photoelectric colorimeter on the research  
ship "M.Lomonosov." Trudy MGI 25:130-142 '62. (MIRA 15:2)  
(Sea water--Analysis) (Colorimetry)

SINYUKOV, V.V.; SKOPINTSEV, B.A.

Use of a new photoelectric colorimeter for the determination of biogenetic elements under field work conditions. Okeanologiya 3 no.1:127-136 '63.  
(MIRA 17:2)

1. Morskoy gidrofizicheskiy institut AN UkrSSR.

SINYUKOV, V.V.

Effect of volcanic eruptions on the chemistry of ocean waters. Okeanologiya 4 no.4:644-650 '64. (MIRA 17:10)

SHASHIN, M.M., kand.med.nauk; SINYUKOVA, A.I., nauchnyy sotrudnik

Case of lighthing injury of a pregnant woman and fetus. Akush.  
i gin. no.4:122 '61. (MIRA 15:5)

1. Iz akushersko-ginekologicheskogo otdela (zav. - kand.med.nauk  
M.M. Shashin) Zakarpatskogo nauchno-issledovatel'skogo instituta  
okhrany materinstva i detstva (dir. - kand.med.nauk Ya.V. Stovbu-  
nenko-Zaychenko).

(FETUS) (PREGNANCY, COMPLICATIONS OF)  
(LIGHTNING--PHYSIOLOGICAL EFFECT)

SINYUKOVA, I.A.

51-14-2-24/28

AUTHORS: Stepanov, I.V., Sinyukova, I.A. and Chernevskaya, E.G.

TITLE: Optical Monocrystals of Strontium and Barium Fluorides.  
(Opticheskiye monokristally ftoridov strontsiya i bariya.)

PERIODICAL: Optika i Spektroskopiya, 1953, Vol.IV, Nr.2, pp.272-274  
(USSR)

ABSTRACT: Fluorite (calcium fluoride,  $\text{CaF}_2$ ) is a very valuable optical material. The authors studied chemical and crystallographic analogues of fluorite:  $\text{SrF}_2$  and  $\text{BaF}_2$  which do not occur in nature. The authors attempted unsuccessfully to grow monocrystals of  $\text{SrF}_2$  and  $\text{BaF}_2$  from commercial reagents.  $\text{SrF}_2$  and  $\text{BaF}_2$  of sufficient purity for preparation of monocrystals were made by deposition of these fluorides from melts. To prepare  $\text{SrF}_2$  the authors used  $\text{SrCl}_2$  and  $\text{NaF}$ ; to prepare  $\text{BaF}_2$  they used  $\text{BaCl}_2$  and  $\text{KF}$ . From the fluorides so prepared, optical monocrystals of  $\text{SrF}_2$  and  $\text{BaF}_2$  of 40 mm diameter and 200 g weight were produced. The

Card 1/3

51-14-2-24/28

**Optical Monocrystals of Strontium and Barium Fluorides.**

Monocrystals were grown under high-temperature vacuum conditions in molybdenum and graphite crucibles (Ref.3). Optical constants and the transmission curve in the ultraviolet, visible and infrared regions were measured on these  $\text{SrF}_2$  and  $\text{BaF}_2$  monocrystals. The figure on p.273 gives the transmission curves of  $\text{CaF}_2$  (curve 1),  $\text{SrF}_2$  (curve 2) and  $\text{BaF}_2$  (curve 3). In the short-wavelength region the transmission limit of  $\text{SrF}_2$  lies near  $1800 \text{ \AA}$ , while that of  $\text{BaF}_2$  lies near  $2000 \text{ \AA}$ . In the infrared region  $\text{SrF}_2$  and  $\text{BaF}_2$  have transmission limits further than  $\text{CaF}_2$ . The results obtained agree with those in Ref.2. The table on p.274 gives the values of optical constants for  $\text{CaF}_2$ ,  $\text{SrF}_2$  and  $\text{BaF}_2$ .  $\text{SrF}_2$  and  $\text{CaF}_2$  differ but little in their refractive indices. The refractive index of  $\text{BaF}_2$  is somewhat higher. Monocrystals of all three fluorides possess small dispersion (last column in the table on p.274).

Card 2/3

51-4-2-24/28

Optical Monocrystals of Strontium and Barium Fluorides.

There is 1 figure, 1 table and 3 references of which  
1 is Soviet, 1 English and 1 American.

ASSOCIATION: State Optical Institute imeni S.I. Vavilov.  
(Gos. opticheskiy institut im. S.I. Vavilova.)

SUBMITTED: May 21, 1957.

1. Single crystals-Growth
2. Single crystals-Optical properties
3. Fluorite-Applications

Card 3/3

SINYUKOVA, I.A., STEPANOV, I.V.

Synthesis of high purity salts of calcium fluoride and barium  
fluoride used in growing optical single crystals. Rost krist.  
2:115-119 '59. (MIRA 13:8)

(Calcium fluoride crystals)  
(Barium fluoride crystals)

SINYUKOVA, O.I. [Syniukova, O.I.], nauchnyy sotrudnik

Disorders of the ovarian-menstrual cycle in girls living in an  
endemic goiter focus. Pediat. akush. ginek. no.3:58-60 '63  
(MIRA 17:1)

1. Zakarpatskiy nauchno-issledovatel'skiy institut okhrany  
materinstva i detstva (direktor - kand. med. nauk Ya.V.  
Stovbunenko-Zaychenko). Nauchnyy rukovoditel' - prof. M.S.  
Baksheyev [Baksheiev, M.S.] i kand. biolog. nauk R.Sh.  
Grosblat.

SINYUKOVA, V.I.

Food of larvae of some littoral fishes in the Bay of Sevastopol.  
Trudy SBS 13:254-265 '60. (MIRA 14:3)  
(Sevastopol Bay--Fishes--Food)  
(Larvae--Fishes)

SINYUKOVA, V.I.

Food supply for the larvae of saurel (*Trachurus mediterraneus* monticus Aleev) in early phases of their development. Trudy SBS 16:282-291 '63.

Some data on the feeding habits of *T. mediterraneus* larvae in the seas of the Mediterranean basin. I...-298  
(MIRA 17:6)

DEKHNIK, I.V., SINYUKOVA, V.I.

Distribution of eggs and larvae of pelagic fishes in the  
Mediterranean Sea. Trudy SBS 17:77-115 '64.  
(MIRA 18:6)

ACC NR: AP6033028

(N)

SOURCE CODE: UR/0050/66/000/009/0040/0043

AUTHORS: Yurokin, A. I.; Sinyurin, Yu. N.

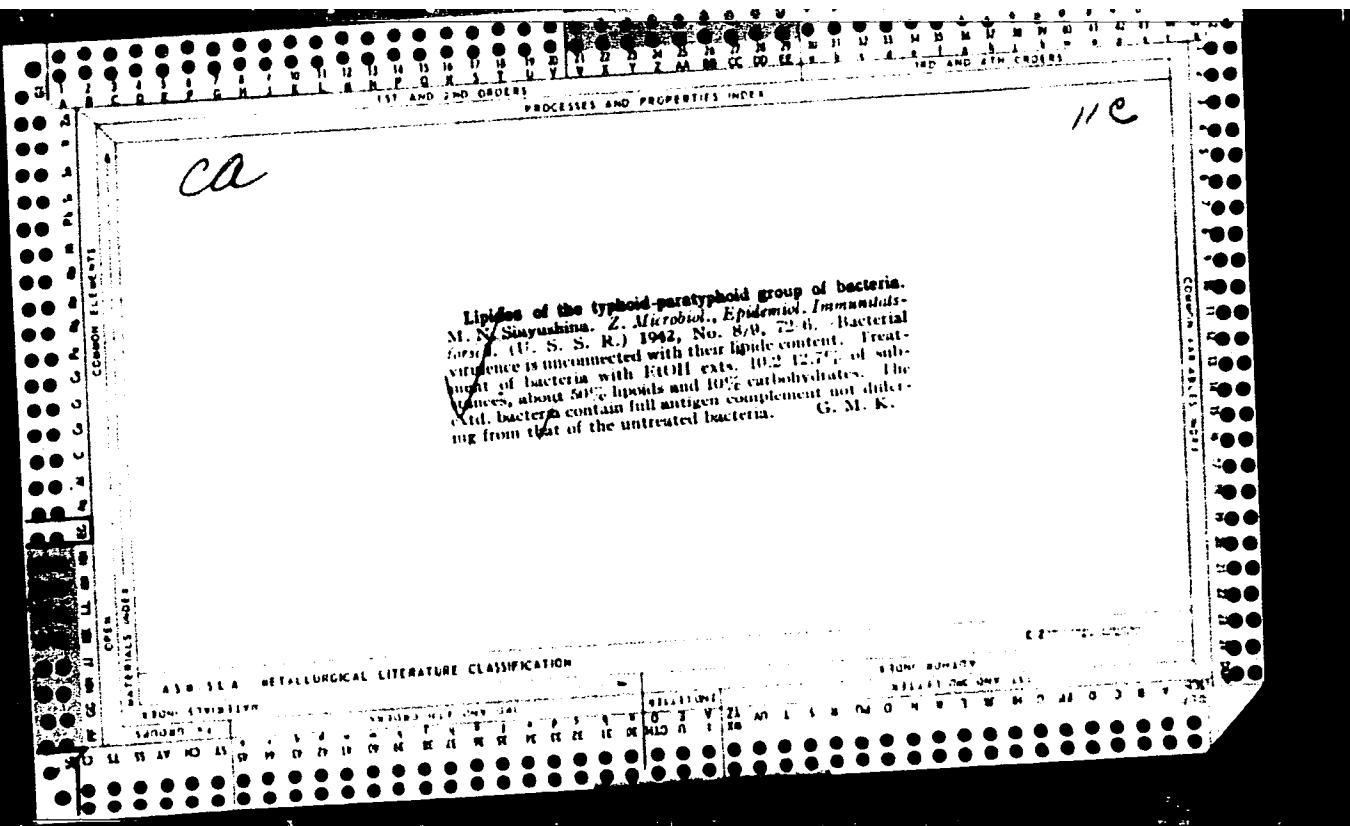
ORG: Main Administration of the Hydrometeorological Service (Glavnoye upravleniye Gidrometeosluzhby)

TITLE: Results of the analysis of drifting radio beacons and automatic radiometeorologic stations in the Arctic Ocean

SOURCE: Meteorologiya i gidrologiya, no. 9, 1966, 40-43

TOPIC TAGS: ocean current, sea water, radiometeorologic station, radio beacon / VEKhA radio beacon, DARMs radiometeorologic station

ABSTRACT: Drifts of ice on the Arctic Ocean were studied during 1953—1965 by radio-range beacons. The information was of interest to hydrometeorological stations servicing navigation in that area. All together, 247 radio-range beacons were established throughout the region. These were of two types: 1) VEKhA, fitted with automatic medium-wave transmitters; 2) DARMs, or drifting automatic radiometeorologic stations. It was established that the average distance of the signal reception from the beacons is about 800 miles. Spring and winter are the optimal periods for information collection; during the summer many of the stations ceased to operate. By using the data on ice drift from the beacons and the ice movement calculated from isobars, it is possible to determine the velocity and direction of sea currents. Orig. art. has: 1 table and 3 figures. 17/ Card 1/1 SUB CODE: 08/ SUBM DATE: 21Dec65 UDG: 551.46.062.8(268)



SINYUSHINA, M.N. and KRAVETS, E.M.

"Anitibiotiks un the Treatment of Septic-Toxic Conditions in Premature Infants."  
[Pediatriya] No. 6, 20 25, No v. Dec., 1949.

During 1947-8 the authors investigated in Moscow the clinical course and the efficacy of treatment in septic toxic conditions in infants. When swabs were taken from the nose or throat of infants suffering from septo-toxoc conditions rod-shaped bacteria were isolated in all cases. These were resistant to sulphonamides and penicillin, and it was thought that streptomycin or streptotetracycline would be more effective in combating this condition. In vitro only 3% of the isolated bacilli showed a high resistance to streptomycin and streptotetracycline. Of the 63 infants treated with these drugs 53 were premature. Of these 70% were at least 2 months premature and 92.4% weighed less than 2,000 g.; 7 were less than 10 days old, 21 from 11 to 20 days old, 17 from 21 to 30 days old, and 3 over 30 days old. The infants were mature and had been suffering from a septic-toxic condition for some time; penicillin and sulphonamides had been tried without effect. The loss of weight in these infants amounted to about 20 to 25%. Streptotetracycline was given to 16 infants (14 premature and 2 mature), the daily dosage being 3,000 units intranasally. Three infants received the drug for 5 days, and in for over 10 days. Five premature infants died. After intranasal application of streptomycin or streptotetracycline for 4 to 5 days rod-shaped bacteria were no longer found in nose or throat swabs.

The authors emphasize that they believe that the bacilli found in throat and nose swabs of these infants cause septic-toxic conditions, especially in premature infants. With streptomycin and streptothricin treatment the mortality rate was 4.6 times less than with penicillin and sulphonamides only.

N. Chatelain

Abstracts of World Medicine. Vol. 8, 1950.

SINYUSHINA, M.V.

USSR.

The resistance of the *Escherichia coli* group of bacteria to streptomycin. M. N. Sinyushina. *Trudy Akad. Med. Nauk S.S.R. S. Voprosy Khimioterapii, Bacteriol. Infekts.* No. 1, 50-62 (1960).—Strains (362) of *E. coli* were studied. *E. coli* isolated during the course of treatment with streptomycin (I) showed only slight changes in I resistance. However, resistant variants of *E. coli* were obtained by culture transfers to media contg. increasing concns. of the antibiotic; the resistant variants retain the newly acquired, property of resistance for a long period of time, but suffer a simultaneous loss in mouse virulence. R. S. Levine.

SINYUSHINA, M.N.; DRATVINA, T.V.; FROLOVA, M.A.

Bacteriologic investigation in local penicillin therapy of closed  
suppurative processes. Khirurgiia, Moskva no.3:49-51 Mar 51.  
(CLML 20:7)

1. Of the Department of Microbiology (Head--Prof. M.N. Lebedeva)  
First Moscow Order of Lenin Medical Institute.

SINYUSHINA, M. N.

Dissertation: "Bacilli Coli as the Cause of Toxic-Septic Conditions in Full-Term  
and Premature Children." Dr Med Sci, First Moscow Order of Lenin Medical Inst,  
6 Sep 54. (Vechernaya Moskva, Moscow, 5 Aug 54)

SO: SUM 393, 28 Feb 1955

VIRTEPOVA, V.M.; SIMYUSHINA, M.N.; LEPLYA, Ye.S.

Synthomycin in nonspecific inflammatory processes of the urinary tract.  
Urologia 21 no.1:35-41 Ja-Mr '56. (MLRA 9:12)

1. Iz kafedry urologii (zav. - prof. I.M.Epshteyn) i kafedry mikrobiologii (zav. - prof. M.N.Lebedeva) I Moskovskogo ordena Lenina meditsinskogo instituta.

(URINARY TRACT, infect.

ther., chloramphenicol)

(CHLORAMPHENICOL, ther. use  
infect. of urinary tract)

17(2)

SOV/16-59-9-15/47

AUTHORS: Sinyushina, M.N., Gorbunova, K.P., Isayeva, L.A., Svetlova, A.K., Staroverova, G.S., and Yelkina, S.I.

TITLE: A Comparative Study of the Microflora Found in Acute and Chronic Pneumonia in Infants <sup>30</sup>

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9,  
pp 67-70 (USSR)

ABSTRACT: At the I Moskovskiy meditsinskiy institut (I Moscow Medical Institute) the authors made a study of the sputum microflora in infants with acute or chronic pneumonia and determined its sensitivity to various antibiotics. No essential difference were noted in the microflora isolated from acute pneumonia cases and the microflora of chronic cases. Because of the early and wide use of antibiotics administered to the children, the microflora could not be studied in its pristine form, which perhaps accounts for the comparatively low rate of isolation of pneumococci (5-7%). Pneumococci were isolated, however, which had lost their virulent properties and proved non-pathogenic to mice. In this case the normal method of detection by intraperitoneal infection of mice is useless and the Pneumococci can best be identified by a bacteriolog-

Card 1/2

SOV/16-59-9-15/47

A Comparative Study of the Microflora Found in Acute and Chronic Pneumonia in Infants

ical examination of the mice's organs. A very large number of the strains isolated in acute and chronic infantile pneumonia proved to be resistant to one or more of the antibiotics tried out (penicillin, streptomycin, levomycetin and biomycin). On the other hand, it was very rare that a strain sensitive to all the antibiotics was found. The low rate of isolation of Pneumococci agrees with the findings of M.N. Yanishevskaya and A.A. Gyul'basarova. Conversely, the discovery of a large percentage of penicillin-resistant staphylococci among the sputum microflora contradicts the findings of A.M. Leonova, A.O. Sakovich and A.L. Libov. There are 3 tables and 5 references, 4 of which are Soviet and 1 unidentified.

**ASSOCIATION:** I Moskovskiy meditsinskiy institut imeni Sechenova (I Moscow Medical Institute imeni Sechenov)

**SUBMITTED:** July 28, 1958

Card 2/2

ISAYEVA, L.A.; SINYUSHINA, M.N.; GORBUNOVA, K.P.

Antibiotic sensitivity of respiratory tract flora in infants with pneumonia [with summary in English]. Pediatrilia 37 no.1:66-69  
(MIRA 12:1)  
Ja '59.

(PNEUMONIA, in inf. & child  
antibiotic ther., sensitivity of resp. flora (Rus))

(ANTIBIOTICS, ther. use  
pneumonia in inf., sensitivity of resp. flora (Rus))

SINYUSHINA, M.N.; NABOKOV, Yu.S.; SAMSONOVA, M.N.; VOLKOV, V.A., red.;  
GUDEININA, T.Ye., tekhn. red.

[Laboratory manual in microbiology; for students of the correspondence section of the Department of Pharmacy] Rukovodstvo k prakticheskim zaniatiiam po mikrobiologii; dlja studentov zaочnogo otdelenija farmatsevticheskogo fakul'teta. Moskva, Pervyi Mosk. med. in-t, 1960. 66 p.  
(MIR 14:6)  
(MICROBIOLOGY—STUDY AND TEACHING)

ISAYEVA, L.A.; SINYUSHINA, M.N.; GORBUNOVA, K.P.; AEROVA, I.L.;  
KIRILLOVA, L.Ye.

Role of staphylococci in the etiology of pneumonias in infants.  
Pediatriia 38 no.11:83-87 N '60. (MIRA 13:12)

1. Iz kliniki detskikh bolezney i kafedry mikrobiologii  
i Moskovskogo ordena Lenina meditsinskogo instituta imeni  
I.M. Sechenova.  
(PNEUMONIA in inf. & child)  
(STAPHYLOCOCCAL INFECTIONS in inf. & child)

SINYUSHINA, M. N.; GORBUNOVA, K. P.; ISAYEVA, L. A.; OVSYANNIN, N. V.

Study of antibiotic-resistant staphylococci isolated during  
pneumonias in infants. Zhur. mikrobiol., epid. i immun. 32 no.8:  
58-63 Ag '61. (MIRA 15:7)

1. Iz kafedry mikrobiologii i kliniki detskikh bolezney I Moskov-  
skogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(STAPHYLOCOCCUS) (PNEUMONIA)

1. SINYUTIN, B.P.
2. USSR (600)
4. Technology
7. Porous chrome-plating of parts of ship's mechanisms. Moskva, Morskoi transport.  
1952
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

SINYUTIN, B.P.; SHIROCHENKO, V.E.; BIRYUKOV, Yu.P., professor, redaktor;  
VOLCHOV, K.M., tekhnicheskiy redaktor.

[Ways of economizing nonferrous metals in ship repairs] Puti  
ekonomii tsvetnykh metallov pri sudoremonte. Pod. red. I.U.P.  
Biriukova. Leningrad, Gos. izd-vo vodnogo transporta, 1954.  
215 p. (MIRA 7:12)  
(Nonferrous metals)(Ships--Maintenance and repair)

SINYUTIN, B.P., inzhener.

Susceptibility of low-carbon steel toward brittle failure  
following electrolytic iron plating. Metalloved. i obr.  
met. no.1:45-46 Ja '56. (MLRA 9:6)

1.TSentral'nyy nauchno-issledovatel'skiy institut morskogo  
flota.  
(Steel--Brittleness) (Electroplating)

SINYUTIN, D.

Ivan Erofeev, active member of the trade union. Sov.shakht. 10  
no.10/31-32 0 '61. (MIRA 14:12)  
(Trade unions)  
(Kuznetsk Basin--Coal miners)

SINYUTIN, D. (Prokop'yevsk, Kemerovskoy oblasti)

In a managerial way. Sov. shakht. 13 no.1:4-5 Ja '64. (MIRA 17)

ACC NR: AP7002168

(A, N)

SOURCE CODE: UR/0089/66/021/006/0498/0499

AUTHOR: Sinyutin, G. V.

ORG: none

TITLE: Calculation of the temperature distribution in the fuel elements of a water-water power reactor

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 498-499

TOPIC TAGS: nuclear power reactor, reactor fuel element, temperature distribution

ABSTRACT: This is a summary of Article No. 117/3548, submitted to the editor and filed, but not published in full. An analytic solution is presented for the problem of determining the temperature distribution in fuel elements, made up of several fuel rods interconnected by metallic inserts, in the active zone of a reactor with a liquid coolant. The problem reduces to solving a system of heat conduction equations, one of which is inhomogeneous, with boundary conditions of third kind, as applied to two cylinders whose end surfaces are in contact. The final formulas are presented, as well as plots of the radial temperature distribution in different sections of the fuel rods and the temperature distribution along the axis of a UO<sub>2</sub> fuel element with zirconium insert. Orig. art. has: 2 figures and 12 formulas.

SUB CODE: 18/ SUBM DATE: 14Dec65

Card 1/1

UDC: 621.039.517.5

21(4) PHASE I BOOK EXPLOITATION 30J/2583  
International Conference on the Peaceful Uses of Atomic Energy.  
2nd, Geneva, 1958.

Bibliography issued by: *Yadernyye reaktor i yadernaya energetika*. (Reports of Soviet Scientists Nuclear Reactors and Nuclear Power.) Moscow, Atomizdat, 1958. 707 p. (Series: It's Trudy, vol. 2) Errata slip inserted. 8,000 copies printed.

General Eds.: M.A. Dollezhal, Corresponding Member, USSR Academy of Sciences and Mathematical Sciences, A.M. Kravkin, Doctor of Physical and Mathematical Sciences, I.I. Lepunsky, Member, Ukrainian SSR Academy of Sciences, I.I. Novikov, Corresponding Member, USSR Academy of Sciences, and V.S. Parasyuk, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyabyev; Tech. Ed.: Ye. I. Mazel.

**PURPOSE:** This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.

**COVERAGE:** This is the second volume of a six-volume collection on the peaceful uses of atomic energy. The six volumes contain the reports presented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 13, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction. In the Soviet Union, the second to experimental and research reactors, the experiments carried out on them, and the work to improve them; and the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Berezin is the science editor of this volume. See Sov/2681. References appear at the end of the articles.

Bogdovoy, V.I., V.S. Dikarev, M.B. Tegizarov, and Yu. S. Saltykov. Measuring Neutron Spectra in Uranium Water Lattices (Report No. 2152) 546

Krasin, A.K., B.Q. Dubovskiy, M.M. Lantsov, Yu.Yu. Glazkov, N.E. Goucharov, A.V. Kanyayev, I.A. Gerseva, V.V. Vavilov, Ye. I. Inyutin, and A.P. Serebrenikov. Studying the Physical Characteristics of a Beryllium-moderator Reactor (Report No. 2146) 555

Golenin, A.D., S.A. Masirovskaya, A.P. Rukik, Yu. G. Abov, V.P. Salikh, and P.A. Krupchitskiy. Critical Experiment on an Experimental Heavy-water Reactor (Report No. 2036) 570

Marchuk, G.I., V.Ya. Pupko, Ye. I. Fogdulina, V.V. Smolov, I.P. Tyuterev, S.T. Patrov, and G.I. Druzhinina. Certain Problems in Nuclear Reactor Physics and Methods of Calculating Them (Report No. 2151) 598

Slobodkin, D.E., and V.M. Semenov. Determination of Control Rod Effectiveness in a Cylindrical Reactor (Report No. 2159) 613

Gal'fand, I.M., S.M. Foyner, A.S. Prolov, and M.N. Chentsov. Using the Monte Carlo Method of Random Sampling for Solving the Kinetic Equation (Report No. 2141) 628

Talestin, M.I. Neutron Distribution in a Heterogeneous Medium (Report No. 2189) 634

Semenovskiy, M.V., A.V. Stepanov, and P.L. Shapiro. Neutron Thermalization and Diffusion in Heavy Media (Report No. 2148) 651

Vernik, A.I., V.S. Yermakov, and A.V. Lykov. Using the Onsager Method for Studying Neutron Diffusion in the Absorbing Media of Nuclear Reactors (Report No. 2222) 668

Prolder, D.L., S.A. Burklin, A.A. Butkov, V.V. Levin, and V.V. Orlow. Studying the Spatial and Energy Distribution of Neutrons in Different Media (Report No. 2147) 674

Matritsev, A.B. Boron Ionisation Chambers for Work in Nuclear Reactors (Report No. 2084) 690

Kazulin, V.A., and S.A. Ulybin. Experimental Determination of Specific Volumes of Heavy Water in a Wide Temperature and Pressure Range (Report No. 2371) 696

L 15885-66 EWT(l)/EWT(m)/EEC(k)-2/ETC(f)/EPF(n)-2/EWG(m)/T/EWP(t)/EWA(h) LJP(c)

ACC NR: AT6002494

SOURCE CODE: UR/3136/65/000/949/0001/0008

JD/WW/JG

AUTHOR: Kondrat'yev, F. V.; Sinyutin, G. V.; Tikhonov, V. F.

ORG: Institute of Atomic Energy im. I. V. Kurchatov, Moscow (Institut atomnoy energii) 59 B4

TITLE: Effect of pile radiation on the performance of a cesium diode 21 25,44

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-949, 1965. Vliyaniye izlucheniya reaktora na rabotu tseziyevogo dioda, 1-8

TOPIC TAGS: cesium electron tube, nuclear reactor, volt ampere characteristic, diode electron tube

ABSTRACT: In connection with the practical applications of thermoemissive transducers which convert heat produced by nuclear reactors into electric energy, the authors studied the effect of a pile radiation field on the characteristics of a cesium diode. The measurements were made at cathode temperatures of 1500, 1700, and 2000°C and cesium vapor pressure from  $10^{-2}$  to several mm Hg. The VVR-2 pile 19 of the Institute of Atomic Energy (Institut atomnoy energii) was used as the radiation source. It was found that the pile radiation field changes the volt-ampere characteristics of the diode, and that during the operation of the diode in Card 1/2

L 15885-66

ACC NR: AT6002494

the radiation field under predetermined conditions, a change in the preselected optimum parameters, primarily the cesium vapor pressure, can take place. This requires further studies of the effect of radiation on cesium diodes. Orig. art. has: 5 figures.

SUB CODE: 18 / SUBM DATE: none

Card 2/2 9

SINYUTIN, V. G.

"Distribution and Wind Velocities and Directions according to Pilot Balloons  
Observations over the City of Vladivostok from 1932 to 1936," included in a col-  
lection of works edited by Prof. S. P. Khromov, "Synoptic Processes of the Far East,"  
Hydrometeorological Publishers, Moscow, 1940

I

SINYUTIN, V.

Demand for goods and planning their marketing. Sov.torg. no.5:14-18  
My '57. (Marketing) (MLRA 10:8)

SINYUTIN, V., kand.ekon.nauk

Determination of rational norms of consumption is an important  
task of the national economy. Sov.torg. 33 no.9:42-47  
S '59. (MIRA 12:12)  
(Consumption (Economics))

SINYUTIN, V., kand.ekonomiceskikh nauk

Let's plan marketing funds in product indices. Sov. torg.  
34 no.6:16-19 Je '61. (MIRA 14:7)  
(Marketing research)

SAPEL'NIKOV, Ya.; GOLOVATYY, I.; GLAZUNOVA, V. aspirant, (Moskva); USTINOV, I.; KOLENKO, A.; KONDRATSKIY, A.; YEFREMOVA, L.; GORBACH, P., konstruktor (Moskva); BERGER, I., kand.ekcn.nauk; KLEPIKOV, N.; SINYUTIN, V., kand.ekcn.nauk; KORZHENEVSKIY, I., kand.ekon.nauk; PEREPLETCHIK, I.

Fiftieth anniversary of "Pravda." Sov. torg. 35 no.5:38-42  
(MIRA 15:5)  
My '62.

1. Nachal'nik Planovo-ekonomicheskogo upravleniya Ministerstva torgovli RSFSR (for Sapel'nikov).
  2. Nachal'nik planovogo ot dela kurorttorga, g. Berdyansk (for Golovaty ).
  3. Moskovskiy ordena Trudovogo krasnogo znameni institut narodnogo khozyaystva im. G.V. Plekhanova (for Glazunova).
  4. Nachal'nik Ot dela tovareoborota Gosplanu USSR, g. Kiyev (for Kolenko).
  5. Glavnny bukhgalter Zhitomirskogo gorodskogo torga po torgovle promtovarami (for Kondratskiy).
  6. Starshiy khudozhnik Obshchesoyuznogo doma modeley (for Yefremova).
  7. Zaveduyushchiy sektorom Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya (for Berger).
  8. Zaveduyushchiy sektorom Nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya, g. Moskva (for Sinyutin).
  9. Zaveduyushchiy sektorom Ukrainskogo nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya, g. Kiyev((for Korzhenevskiy)).
- (Russian newspapers)

SHARONOV, Vsevolod Vasil'yevich, doktor fiz.-mat.nauk; SINYUTIN, V.I.,  
red.; PUL'SKAYA, R.G., tekhn.red.

[What we know about the moon] Chto my znaem o Lune. [Leningrad]  
Lenizdat, 1960. 76 p. (MIRA 14:1)  
(Moon) (Lunar probes)

*574-177-5000-2*

NAZAROV, Ravino Saviyevich, kandidat ekonomicheskikh nauk; SINYUTIN, Vasiliy Mikhaylovich, kandidat ekonomicheskikh nauk; PALALYEVA, T.F., redaktor; GUBIN, M.I., tekhnicheskiy redaktor

[Consumption of food products and consumers' goods in the U.S.S.R.]  
Potreblenie produktov pitanija i neprodovol'stvennykh tovarov v SSSR.  
Moskva, Izd-vo "Znanie," 1957. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniju politicheskikh i nauchnykh znanii. Ser.3, no.17)  
(Russia-Manufactures) (MLRA 10:9)  
(Food supply)

NAZAROV, R.S.; SINYUTIN, V.M.; SHNIRLIN, Yu.L.; USTINOV, M.T., red.;  
MAMONTOVA, N.N., tekhn.red.

[Consumption in the U.S.S.R. and method for its calculation]  
Potreblenie v SSSR i metodika ego isschisleniya. Moskva, Gos.  
izd-vo torg.lit-ry, 1959. 82 p. (MIRA 13:3)  
(Consumption (Economics))

SINZAR, D.

Contributions to the study of the ectoparasitic fauna of pike perch  
(Lucioperca lucioperca L.) from Ecka Pond. p. 369, (GLASNIK, No. 5/6,  
1953, Belgrade, Yugoslavia)

SO: Monthly list of East European Accessions, (EEAL) LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

W. G. B.  
Annual statistical review of characteristics of the trout Salmo  
trutta L., 1758

Acta Acad. Sci. Fenn. Comm. Phys. et Math. vol. 7, no. 1, 1959  
Helsinki, Finland, 1959, 12 pp. + 1 plate

U.S.S.R.

Acta Acad. Sci. Fenn. Comm. Phys. et Math. vol. 5, no. 10 Oct. 1957  
Helsinki, Finland, 1957, 12 pp. + 1 plate

SIODA, II.

"A Review of Methods and Equipment for Shaking Out Castings." p.263  
(PRZEGLAD ODLEWNICTWA Vol. 3, no. 9, Sept. 1953 Krakow, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

SIODA, Henryk

Technical progress in the production of ingot molds. Pro-  
blemy proj hut maszyn 11 no.108306-315 0'63

1. Biprohut, Gliwice.

SIGDA, Henryk

New methods of producting ingot molds. Przegl odlew 14  
no. 2851-56 F'64.

SIODA, Henryk

Technical and economic analysis of the degree of mechanization  
of cupola loading. Problemy proj hut maszyn 12 no.12:360-  
369 D '64.

1. Biprohut, Gliwice.

KEMULA, W.; SIODA, R.

Polarography and electrolysis of nitrobenzene in dimethylformamide.  
Bul chim PAN 10 no.9:507-512 '62.

1. Institute of Physical Chemistry, Polish Academy of Sciences,  
Warsaw. Presented by W. Kemula.

KEMULA, W.; SIODA, R.

Visible spectrum of nitrobenzene free radical anion in dimethyl-formamide. Bul chim PAN 10 no.9:513-514 '62.

1. Institute of Physical Chemistry, Polish Academy of Sciences,  
Warsaw. Presented by W. Kemula.

KEMULA, Wiktor; SIODA, Roman

Equipment for catalytic hydrogen purification from traces  
of oxygen. Chem anal 8 no.4:629-631 '63.

1. Institute of Physical Chemistry, Polish Academy of  
Sciences, Warsaw.

KEMULA, W.; SICDA, R.

Investigation of free radical anions of some aromatic nitrocompounds on dimethylformamide. Bul chim pan 11 no.7:395-401 '63.

1. Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw. Presented by W. Kemula.

S104A, VL.

U

1.	2.	3.	4.	5.	6.	7.	8.
9.	10.	11.	12.	13.	14.	15.	16.
17.	18.	19.	20.	21.	22.	23.	24.
25.	26.	27.	28.	29.	30.	31.	32.
33.	34.	35.	36.	37.	38.	39.	40.
41.	42.	43.	44.	45.	46.	47.	48.
49.	50.	51.	52.	53.	54.	55.	56.
57.	58.	59.	60.	61.	62.	63.	64.
65.	66.	67.	68.	69.	70.	71.	72.
73.	74.	75.	76.	77.	78.	79.	80.
81.	82.	83.	84.	85.	86.	87.	88.
89.	90.	91.	92.	93.	94.	95.	96.
97.	98.	99.	100.	101.	102.	103.	104.
105.	106.	107.	108.	109.	110.	111.	112.
113.	114.	115.	116.	117.	118.	119.	120.
121.	122.	123.	124.	125.	126.	127.	128.
129.	130.	131.	132.	133.	134.	135.	136.
137.	138.	139.	140.	141.	142.	143.	144.
145.	146.	147.	148.	149.	150.	151.	152.
153.	154.	155.	156.	157.	158.	159.	160.
161.	162.	163.	164.	165.	166.	167.	168.
169.	170.	171.	172.	173.	174.	175.	176.
177.	178.	179.	180.	181.	182.	183.	184.
185.	186.	187.	188.	189.	190.	191.	192.
193.	194.	195.	196.	197.	198.	199.	200.
201.	202.	203.	204.	205.	206.	207.	208.
209.	210.	211.	212.	213.	214.	215.	216.
217.	218.	219.	220.	221.	222.	223.	224.
225.	226.	227.	228.	229.	230.	231.	232.
233.	234.	235.	236.	237.	238.	239.	240.
241.	242.	243.	244.	245.	246.	247.	248.
249.	250.	251.	252.	253.	254.	255.	256.
257.	258.	259.	260.	261.	262.	263.	264.
265.	266.	267.	268.	269.	270.	271.	272.
273.	274.	275.	276.	277.	278.	279.	280.
281.	282.	283.	284.	285.	286.	287.	288.
289.	290.	291.	292.	293.	294.	295.	296.
297.	298.	299.	300.	301.	302.	303.	304.
305.	306.	307.	308.	309.	310.	311.	312.
313.	314.	315.	316.	317.	318.	319.	320.
321.	322.	323.	324.	325.	326.	327.	328.
329.	330.	331.	332.	333.	334.	335.	336.
337.	338.	339.	340.	341.	342.	343.	344.
345.	346.	347.	348.	349.	350.	351.	352.
353.	354.	355.	356.	357.	358.	359.	360.
361.	362.	363.	364.	365.	366.	367.	368.
369.	370.	371.	372.	373.	374.	375.	376.
377.	378.	379.	380.	381.	382.	383.	384.
385.	386.	387.	388.	389.	390.	391.	392.
393.	394.	395.	396.	397.	398.	399.	400.
401.	402.	403.	404.	405.	406.	407.	408.
409.	410.	411.	412.	413.	414.	415.	416.
417.	418.	419.	420.	421.	422.	423.	424.
425.	426.	427.	428.	429.	430.	431.	432.
433.	434.	435.	436.	437.	438.	439.	440.
441.	442.	443.	444.	445.	446.	447.	448.
449.	450.	451.	452.	453.	454.	455.	456.
457.	458.	459.	460.	461.	462.	463.	464.
465.	466.	467.	468.	469.	470.	471.	472.
473.	474.	475.	476.	477.	478.	479.	480.
481.	482.	483.	484.	485.	486.	487.	488.
489.	490.	491.	492.	493.	494.	495.	496.
497.	498.	499.	500.	501.	502.	503.	504.
505.	506.	507.	508.	509.	510.	511.	512.
513.	514.	515.	516.	517.	518.	519.	520.
521.	522.	523.	524.	525.	526.	527.	528.
529.	530.	531.	532.	533.	534.	535.	536.
537.	538.	539.	540.	541.	542.	543.	544.
545.	546.	547.	548.	549.	550.	551.	552.
553.	554.	555.	556.	557.	558.	559.	560.
561.	562.	563.	564.	565.	566.	567.	568.
569.	570.	571.	572.	573.	574.	575.	576.
577.	578.	579.	580.	581.	582.	583.	584.
585.	586.	587.	588.	589.	590.	591.	592.
593.	594.	595.	596.	597.	598.	599.	600.
601.	602.	603.	604.	605.	606.	607.	608.
609.	610.	611.	612.	613.	614.	615.	616.
617.	618.	619.	620.	621.	622.	623.	624.
625.	626.	627.	628.	629.	630.	631.	632.
633.	634.	635.	636.	637.	638.	639.	640.
641.	642.	643.	644.	645.	646.	647.	648.
649.	650.	651.	652.	653.	654.	655.	656.
657.	658.	659.	660.	661.	662.	663.	664.
665.	666.	667.	668.	669.	670.	671.	672.
673.	674.	675.	676.	677.	678.	679.	680.
681.	682.	683.	684.	685.	686.	687.	688.
689.	690.	691.	692.	693.	694.	695.	696.
697.	698.	699.	700.	701.	702.	703.	704.
705.	706.	707.	708.	709.	7010.	7011.	7012.
7013.	7014.	7015.	7016.	7017.	7018.	7019.	7020.
7021.	7022.	7023.	7024.	7025.	7026.	7027.	7028.
7029.	7030.	7031.	7032.	7033.	7034.	7035.	7036.
7037.	7038.	7039.	7040.	7041.	7042.	7043.	7044.
7045.	7046.	7047.	7048.	7049.	7050.	7051.	7052.
7053.	7054.	7055.	7056.	7057.	7058.	7059.	7060.
7061.	7062.	7063.	7064.	7065.	7066.	7067.	7068.
7069.	7070.	7071.	7072.	7073.	7074.	7075.	7076.
7077.	7078.	7079.	7080.	7081.	7082.	7083.	7084.
7085.	7086.	7087.	7088.	7089.	7090.	7091.	7092.
7093.	7094.	7095.	7096.	7097.	7098.	7099.	70100.
70101.	70102.	70103.	70104.	70105.	70106.	70107.	70108.
70109.	70110.	70111.	70112.	70113.	70114.	70115.	70116.
70117.	70118.	70119.	70120.	70121.	70122.	70123.	70124.
70125.	70126.	70127.	70128.	70129.	70130.	70131.	70132.
70133.	70134.	70135.	70136.	70137.	70138.	70139.	70140.
70141.	70142.	70143.	70144.	70145.	70146.	70147.	70148.
70149.	70150.	70151.	70152.	70153.	70154.	70155.	70156.
70157.	70158.	70159.	70160.	70161.	70162.	70163.	70164.
70165.	70166.	70167.	70168.	70169.	70170.	70171.	70172.
70173.	70174.	70175.	70176.	70177.	70178.	70179.	70180.
70181.	70182.	70183.	70184.	70185.	70186.	70187.	70188.
70189.	70190.	70191.	70192.	70193.	70194.	70195.	70196.
70197.	70198.	70199.	70200.	70201.	70202.	70203.	70204.
70205.	70206.	70207.	70208.	70209.	70210.	70211.	70212.
70213.	70214.	70215.	70216.	70217.	70218.	70219.	70220.
70221.	70222.	70223.	70224.	70225.	70226.	70227.	70228.
70229.	70230.	70231.	70232.	70233.	70234.	70235.	70236.
70237.	70238.	70239.	70240.	70241.	70242.	70243.	70244.
70245.	70246.	70247.	70248.	70249.	70250.	70251.	70252.
70253.	70254.	70255.	70256.	70257.	70258.	70259.	70260.
70261.	70262.	70263.	70264.	70265.	70266.	70267.	70268.
70269.	70270.	70271.	70272.	70273.	70274.	70275.	70276.
70277.	70278.	70279.	70280.	70281.	70282.	70283.	70284.
70285.	70286.	70287.	70288.	70289.	70290.	70291.	70292.
70293.	70294.	70295.	70296.	70297.	70298.	70299.	70300.
70301.	70302.	70303.	70304.	70305.	70306.	70307.	70308.
70309.	70310.	70311.	70312.	70313.	70314.	70315.	70316.
70317.	70318.	70319.	70320.	70321.	70322.	70323.	70324.
70325.	70326.	70327.	70328.	70329.	70330.	70331.	70332.
70333.	70334.	70335.	70336.	70337.	70338.	70339.	70340.
70341.	70342.	70343.	70344.	70345.	70346.	70347.	70348.
70349.	70350.	70351.	70352.	70353.	70354.	70355.	70356.
70357.	70358.	70359.	70360.	70361.	70362.	70363.	70364.
70365.	70366.	70367.	70368.	70369.	70370.	70371.	70372.
70373.	70374.	70375.	70376.	70377.	70378.	70379.	70380.
70381.	70382.	70383.	70384.	70385.	70386.	70387.	70388.
70389.	70390.	70391.	70392.	70393.	70394.	70395.	70396.
70397.	70398.	70399.	70400.	70401.	70402.	70403.	70404.
70405.	70406.	70407.	70408.	70409.	70410.	70411.	70412.
70413.	70414.	70415.	70416.	70417.	70418.	70419.	70420.
70421.	70422.	70423.	70424.	70425.	70426.	70427.	70428.
70429.	70430.	70431.	70432.	70433.	70434.	70435.	70436.
70437.	70438.	70439.	70440.	70441.	70442.	70443.	70444.
70445.	70446.	70447.	70448.	70449.	70450.	70451.	70452.
70453.	70454.	70455.	70456.	70457.	70458.	70459.	70460.
70461.	70462.	70463.	70464.	70465.	70466.	70467.	70468.
70469.	70470.	70471.	70472.	70473.	70474.	70475.	70476.
70477.	70478.	70479.	70480.	70481.	70482.	70483.	70484.
70485.	70486.	70487.	70488.	70489.	70490.	70491.	70492.
70493.	70494.	70495.	70496.	70497.	70498.	70499.	70500.
70501.	70502.	70503.	70504.	70505.	70506.	70507.	70508.
70509.	70510.	70511.	70512.	70513.	70514.	70515.	70516.
70517.	70518.	70519.	70520.	70521			

ENACHESCU, Mariana; SEGALL, Solomon; SION, Cornelia; TEODORESCU,  
Vasile; CEAUSU, Valeriu

Psychic compensation of hypoacusia of aeronautic personnel.  
Rev psihologie 9 no.2:273-290 '63.

L 49217-65 EWG(j)/EWG(r)/EWT(l)/FS(r)-3/EWG(v)/EWG(a)-2/EWG(c) Pe-5 DD  
ACCESSION NR: AP4044091 R/0012/64/000/004/0691/0699 31  
B

AUTHOR: Teodorescu, V. (Physician major), Ceausu, V. (Chief psychologist), Sion, G.  
Enachescu, M. (Psychologist), Budescu, C. (Physician major)

TITLE: Opinions regarding the prognostic value of the selective psychological examination of candidates for aviation schools

SOURCE: Revista sanitara militara, no. 4, 1964, 691-639

TOPIC TAGS: aviation school, pilot training, pilot selection, psychological testing, aptitude testing, flight aptitude, personality trait, manual coordination

ABSTRACT: Since 1920, the notion of "flight aptitude" in the psychological sense has become increasingly important. Considering that most of the accidents which have occurred have been due to pilot errors connected strictly with the "human factor," the development of an effective psychological method for the selection of flight personnel has become essential. The purpose of the present investigation was to compare the data of the psychological tests (based on a comparison between the personalities of the candidates) with the scholastic and professional development of the individuals. The main parameters under investigation were: the prognostic value of the psychological tests, the diagnostic value of the tests, the

Card 1/5

L 49217-65

ACCESSION NR: AP4044091

"specific weight" exerted by each test on the entire examination, and also the reliability of the interpretation of the results. A group comprising all the candidates admitted to aviation schools (in Rumania) between 1959 and 1962 was used for the investigation. The examination was made-up of a group of written tests (Kraepelin's calculation; the barrier test of Bourdon-Wiersma; the search for disordered numbers; the "labyrinth" test; a questionnaire on personality traits; collective tests for verbal-logical association; a questionnaire on interest in the field of aviation), and individual practical tests (coordination of movements; the complex reaction; tachyscopy test; verbal association experiment). The collective written tests were used to narrow down the field of candidates. It was considered that candidates with possibilities of success should possess good development in the following groups of qualities: dynamic characteristics of mental activity; characteristics of the information-reaction-autoregulation cycle; affective motivation; social and moral characteristics and attitude; activity integration and compensation; and personality traits. Of the total number of candidates, 7-10% were rejected as a consequence of the psychological selection. Furthermore, since all the candidates subjected to the selective psychological examination had already begun their flight training (some of them were licensed jet-pilots), the authors

Card 2/5

L 49217-65

ACCESSION NR: AP4044091

0

felt that it would be desirable to verify the prognostic value of this type of testing. The method consisted of comparing the data of the psychological examination with the scholastic and professional development, using a statistical analysis of the numerical values obtained in the laboratory and field research. The importance of personal conversations between the instructor and the candidate during the field tests is stressed. From the data obtained, the candidates were graded as good, average and poor. The comparative results of theoretical and practical tests are shown in Table 1 of the Enclosure. On the basis of these findings, the following conclusions were obtained: 1) A comparison between the results of the psychological examination and those obtained by the candidates in theoretical courses and flight activities fully demonstrates the effectiveness of the examination procedure. 2) The psychophysiological examination is partially a method of diagnosing the degree of development of flight aptitudes, and partially a way of predicting the development of adaptation to flight conditions. 3) The number and variety of the practical tests is particularly important. 4) The quantitative indexes have a greater prognostic value in regard to the theoretical preparation. In regard to flight capacity, the most important indexes are the practical tests, and the complex psychological analysis of the performance of the subjects in all the tests. 5) The investigation of the students must not be limited to the initial examination, but should be dynamic, using all available data on their behavior and scholastic activities. Orig. art. has: 4 tables.

Card 3/5

MINKIN, V.I.; OSIPOV, O.A.; GARNOVSKIY, A.D.; SEDONOV, A.M.

Dipole moments of imidazole and its derivatives. Zhur. fiz. khim. 36 no.3:469-473 Mr '62.  
(MIRA 17:8)

1. Rostovskiy gosudarstvennyy universitet.

SIPA, Konrad; TYSZKA, Krystyna; WALEWSKA, Emilia

Lymph node-bronchial fistulae in primary tuberculosis in  
children. Gruzlica 30 no.6:559-563 '62.

1. Z Sanatorium Przeciwgruzliczego dla Dzieci w Lagiewnikach  
Dyrektor: prof. dr med. A. Margolisowa i z Kliniki Otolaryngologicznej AM w Łodzi Kierownik: prof. dr med. A. Radzimski.  
(BRONCHIAL FISTULA) (LYMPH NODES)  
(FISTULA) (TUBERCULOSIS, PULMONARY)  
(TUBERCULOSIS IN CHILDHOOD) (BRONCHOSCOPY)

BROSS, Wiktor; SLOPEK, Stefan; SLOWIKOWSKI, Jan; MORDARSKI, M.; SIEDLICKA, M.;  
KOZMINSKI, Stefan

New observations on sterilization of large intestinal bacterial  
flora. Polskie tygod. lek. 14 no.1:17-21 5 Jan 59.

1. (Z II Kliniki Chirurgicznej Akad. Med. we Wrocławiu; kierownik:  
prof. dr W. Bross i z Instytutu Immunologii i Terapii Doswiadczałnej  
PAN im. Ludwika Hirszfelda we Wrocławiu; dyrektor: prof. dr Stefan  
Slopek). Adres: Wrocław, ul. Curie-Sklodowskiej 66, II Klin. Chirurg.  
A. M.

(COLON, surg.

preop. sterilization of bact. flora in large intestine  
using antibiotics (Pol))  
(INTESTINE, LARGE, microbiol.  
bact. flora, preop. sterilization using antibiotics (Pol))

SIORIDZE; G.YA.

✓ Sulfation of manganese dioxide with ferrous sulfate and  
with pyrite. N. P. Dicy, M. I. Kochnev, V. V. Piduchev,  
and G. Ya. Sioridze. *J. Appl. Chem. U.S.S.R.* 27, 335-  
42 (1954) (Engl. translation).—See *C.A.* 48, 14134i.  
H. L. H.

CH

R. J. H.

SIORIDZE, G. Ya.

AID - P-86

Subject : USSR/Chemistry

Card : 1/1

Authors : Diyev, N. P., Kochnev, M. I., Paduchev, V. V., and Sioridze, G. Ya.

Title : Formation of manganese sulfate from manganese dioxide by ferrous sulfate or pyrite

Periodical : Zhur. Prikl. Khim. 27, no. 4, 356-359, 1954

Abstract : Roasting of manganese dioxide with ferrous sulfate at 700-800°C converts 98-99% manganese into sulfate; with pyrite, 87.5-89% Mn. Three references (U.S.S.R.): 1935-1944. Three graphs; three tables.

Institution : None

Submitted : February 16, 1953

BELIKOV, Yu.V.; KEKELIDZE, M.A.; KRASNYKH, I.F.; SICRIDZE, G.Ya.; KHITRIK, S.I.; SHATIRISHVILI, G.A.; SHIRER, G.B.

Making silicon-manganese alloys from sintered 2d and 3d-grade concentrates of the Nikopol' deposit. Stal' 24 no.2:140-143 F '64.  
(MIRA 17:9)

Sjoridze, G. Ya.

U S S R .

Potential balance of electrolyte in electrolytic deposition of manganese from aqueous solutions. N. P. Diyev, G. Ya. Sjoridze, A. V. Serchukova, and R. A. Mindodashvili (*Zhur. prikl. Khim.*, 1954, **27**, 860—864).—Means of raising the yield of Mn in electrolysis of aq.  $MnSO_4$ — $(NH_4)_2SO_4$  include the following: use of Pb alloy anodes, discarding of irregular or deformed cathodes, use of suitable plastic for the diaphragm, and reduction of resistance in the leads and external circuit.

R. Truscoz.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550820002-8

BEREZHIANI, V.M.; GIORIDZE, G.Ya.; MARATASHVILI, I.B.; KVEZENADZE, Sh.M.

Results of industrial experiments for the production of nitrided manganese.  
Trudy Inst. met. AN Gruz. SSR 13:169-179 '62. (MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550820002-8"

L 7033-66. EWT(d)/EWT(1)/EWT(m)/ETC(m) WW

ACC NR: AP5026916

SOURCE CODE: UR/0286/65/000/017/0094/0094

AUTHOR: Siov, B. N.; Alabushev, A. Ye.

ORG: none

TITLE: A pressure regulator. Class 42, No. 174449 [announced by Organization of the State Committee for Defense Technology SSSR (Organizatsiya Gosudarstvennogo komiteta po oboronnoy tekhnike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 94

TOPIC TAGS: pressure regulator, pressure measuring instrument

ABSTRACT: This Author's Certificate introduces a pressure regulator which contains a casing with a diaphragm, a contact device, control point adjustment and control valve. The pressure control range is increased by using a throwover device made in the form of a chamber with a plunger. The cavity of this chamber is connected with the regulator chamber. One end of the plunger is connected to the control object and the other to the control point adjustment. Metal hemispheres which automatically adjust themselves to the extreme position along metal saddles are mounted on the ends of the plunger.

UDC: 621.646.4

SUB CODE: IE/

SUBM DATE: 22Jan64/

ORIG REF: 000/

OTH REF: 000.

Card 1/1

KUBANEK, Zd.; SIOSTRZONEK, Frantisek, inz.

A device for fast multistage sorting of samples of loose materials. Hut listy 17 no.10:727-729 0 '62.

1. Trinecke zelezarny Velke rijnove socialistické revoluce,  
Trinec (for Kubanek). 2. Vedecko-vyzkumny uhelny ustav,  
Ostrava-Radvanice (for Siostrozonek).

SIOYANOV, G. A.

Pine

Unusual growth on the roots of pines. Les. khoz., L no. 12, 1951

Monthly List of Russian Accessions. Library of Congress, April 1952. UNCLASSIFIED.

SIP, A.; VANECK, J.

Apparatus for injection of small quantities of fluid.  
Cesk. fysiol. 4 no.4:488-489 22 Oct 55.

1. Farmakologicky ustav lek. fak. Karlovy university, Praha.  
(INJECTIONS, apparatus and instruments,  
for inject. of small quantities of fluids in exper.  
animals)

SENEČEK, M.; WENKOVA, J.; ŠÍP, A.

Serial determination of lipids in various organs with a special  
homogenizer. Česk. fysiol. 6 no.2:218-219 1957.

1. Farmakologicky ustav fakulty všeobecného lekarství K.U.  
Fyziologické oddělení Ustava pro výzkum výživy lidu, Praha.

(LIPIDS, determination,  
serial determ. in various organs with homogenizer (Gz))

SHIP, A. *Sip, A.*

VENKE, M. [Wenke, M.]; VENKE, I. [Wenkeova, J.]; SHIP, A. [Sip, A.]

Serial determination of lipids in organs using a special homogenizer.  
Physiol. bohem. 6 no.2:251-253 1957.

1. Farmakologicheskiy institut meditsinskogo fakul'teta Karlova  
Universiteta v Prage, Fiziologicheskoye otdeleniye Instituta pitaniya  
v Prage.

(LIPIDS, determ.  
serial determ. using special homogenizer (Rus))

SIP, EMIL

"Vcerejesk a dnesek vietnamske cesince; z cestovniho zapisniku. (Kresby: Alexander Kobzdej) Praha, Statni zemedelske nakl., 1955 135 p. (Zemedelska ekenomika a planovani) (A Vietnamese village, yesterday and today; from a travel diart. illus., ports.)  
NM Not in DLC

P. 135 (Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 7, July 1958

41925

S/194/62/000/009/006/100  
D222/D309

41925

AUTHORS: Sip, Emil and Vurcfeld, Václav

TITLE: Pneumatic distributor for processing the output data  
of mathematical machinesPERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 9, 1962, abstract 9-1-104 m (Czech. pat., cl. 42m,  
29, no. 98301, Jan. 15, 1961)

TEXT: This is a patent of a pneumatic distributor for the output  
printers of digital computers, characterized by high-speed, reliability,  
simple construction and manufacture, and easy maintenance.  
The essence of this device (see figure) is the use of valve 10 rotating  
around the axis O<sub>1</sub>, driven by a motor (which is not shown on  
the figure) enclosed in the casing 20. The type-wheel 33 rotates  
in phase and synchronously with the valve around the axis O<sub>2</sub>. In  
the body of the valve there are transversal cuts 11, in which there  
are inserts 12 with shaped grooves 21 - 24. In the body of the casing

Card 1/2

2

S/194/62/000/009/006/100  
D222/D309

Pneumatic distributor for ...

there are also cuts 21 in which are placed inserts 22 with double, shaped grooves 220 - 224, and horizontal grooves 225 - 229 with 2-position valves 51 - 55 moved by means of electromagnets (not shown on the figure), mounted in the body of the casing 20. The air inlet and outlet for the distributor are the openings 23 and 24 connected to the type distributor 30, which has the form of a segment. In the body of the distributor 30 there are drilled openings 31, in which there are spring-loaded hammers 32. When the pressure is applied the latter strike the paper sheet 40, pressing it onto the surface of the type-wheel and to the printing ribbon 42. The shaped grooves 121 - 124 of each insert have individual properties ensuring the transmission of pressure to the openings 24 only when they are aligned with the corresponding grooves 221 - 224 and with the positions of the valves 51 - 55 which serve for the coding of information. Because of the synchronous and in-phase rotation of the valve 10 and the type-wheel 33, the coincidence of the grooves 121 - 124 with the grooves 221 - 224 results in the printing of characters determined by the states of the valves 51 - 55. 3 figures. /Abstracter's note: Complete translation./

Card 2/2 2

SIP, Emil

Electric differential analyzer EMDA. Stroje na zprac inf 8:  
209-215 '62.

1. Forschungsinstitut fur mathematische Maschinen, Prag.

44260

S/035/62/000/012/062/064  
A001/A101

9.7160

AUTHOR: Šip, Jaroslav

TITLE: Technical calculations on an ARITMA T 520 computer

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 12, 1962, 40,  
abstract 12G252 ("Geod. a kartogr. obzor", 1962, v. 8, no. 7,  
126 - 128, Czech)

TEXT: The ARITMA T 520 computer consists of the mechanical and electrical parts. The first part performs transportation of punched cards, insertion of initial data for calculations and their conversion into electric pulses. Results of calculations in the form of electric pulses are fed also into the mechanical part which converts them into numbers and registers on punched cards. Calculations proper are performed in the electrical part which represents a system of electromagnetic relays. The main operation performed by the computer is addition. Therefore, other operations must be expressed in terms of addition. A commutation board corresponding to the operation being performed is attached to the computer. At the present time 8 such boards are available for multipli-

Card 1/2

Technical calculations on an ARITMA T 520 computer

S/035/62/000/012/062/064

A001/A101

cation and division of numbers, accumulation of sums, and calculation of progressions. The computer has 6 input memory devices for 9-digit numbers and 1 device for 14-digit numbers; the latter is used for control operations. The computer can be adapted for more complicated calculations by means of using tabular punched cards provided with corresponding tables with increased intervals. In necessary cases either linear or quadratic interpolation is carried out.

N. Modrinskiy

[Abstracter's note: Complete translation]

Card 2/2

Raf M SIP V.

Sir (V.). Smrkovský výslech Brněnského virensami. [Yield reductions of Potatoes owing to viruses.]—*Ochr. Rost.*, 22, 1-2, pp. 38-44, 1 fig., 1949. [English summary.]

A tabulated survey is given of comparative investigations in Czechoslovakia in 1942 and 1948 to determine the relative yield reductions of potato plants infected with severe virus diseases, together with the effect on total yield.

Leaf roll [*R.A.M.*, 17, p. 335] and streak (rugose mosaic) [virus Y: *ibid.*, 28, p. 301] caused yield losses in various localities of 65 to 80 per cent., crinkle [virus X + virus A: *ibid.*, 15, p. 392] 35 to 55 per cent., while no reduction was caused by mild mosaic [virus X: *ibid.*, 29, p. 224]. The yields of plots are markedly decreased if disease incidence is more than 20 per cent., the losses being further aggravated by early harvesting and unfavourable growing conditions. Under favourable conditions healthy plants may balance the losses, but only healthy seed should be used in order to obtain high and constant yields.

*Dr. A. Radzimski*

SIPA, Konrad; SYLWANOWICZ, Ludmila

A case of gas gangrene of the neck. Otolar.polska 9 no.1:59-62  
'55.

1. Z Kliniki Otolaryngologicznej A.M. w Łodzi. Kierownik: prof. dr  
med. A Radzimski.

(GAS GANGRENE

neck, surg.)

(NECK, diseases

gas gangrene, surg.)

EXCERPTA MEDICA Sec 17 Vol 5/3 Public Health Mar 59

963. THE IMPORTANCE OF THE SENSE OF SMELL IN WORKERS IN CERTAIN BRANCHES OF THE CHEMICAL INDUSTRY - Znaczenie badania węchu u robotników w niektórych gałęziach przemysłu chemicznego -  
Laciak J. and Sipa K. Klin. Otolaryngol. Akad. Med., Łódź - MED.  
PRACY 1958, 9/2 (85-90) Tables 6

In 173 workers, chosen at random, directly from their work in a chemical plant, the acuity of smell was tested by Meurmann's method. The tests revealed that workers exposed to gases (chlorine, nitrogen and sulphur oxides) suffer greatest impairment of the sense of smell. Both incidence and degree of impairment varied directly with the duration of exposure. Poor sense of smell most often was accompanied by a history of intoxication, independent of the cause of smell-impairment; it was not excluded that such impairment may have resulted from a previous intoxication.

RADZIMINSKI, Aleksander; SIPA, Konrad; BRZEZINSKI, Eusebiusz

Use of trichloroethylene in bronchoscopy and certain laryngological  
procedures. Otolaryngologia Polska 15 no.1:7-10 '61.

1. Z Kliniki Chorob Uszu, Nosa i Gardia AM w Łodzi. Kierownik:  
prof. dr med. A. Radziminski.

(TRICHLOROETHYLENE anest & analg)  
(BRONCHOSCOPY anest & analg)  
(OTORHINOLARYNGOLOGY anest & analg)

SIPACHEV, S. G.: Master Agric Sci (diss) -- "Hybrid short-horn cattle of the Euzuluk Sovkhoz and methods of improving it". Sverdlovsk, 1958. 24 pp (Saratov Zootech-Vet Inst, Ural Sci Res Inst of Agric), 200 copies (KL, No 13, 1959, 109)

GRIGOR'YEV, A.I.; ORLOVA, Yu.V.; SIPACHEV, V.A.; NOVOSELOVA, A.V.

Vibration spectra of alkali metal fluoberyllates of the type  
 $M_2BeF_4$ . Dokl. AN SSSR 152 no.1:134-136 S '63. (MIRA 16:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
2. Chlen-korrespondent AN SSSR (for Novoselova).  
(Fluoberyllates—Spectra)

TRYAPICHNIKOV, P.F., SIPAHEVA, V.A.

Contact dermatitis caused by contraceptives. Sov. med. 27 no.3:  
127-128 Mr '64. (MIRA 17:11)

L. Kafedra kozhnnykh i venericheskikh bolezney (zav. - dotsent K.P.  
Koshetov) Chelyabinskogo meditsinskogo instituta.

GRIGOR'YEV, A.I.; SIPACHEV, V.A.; NOVOSELOVA, A.V.

Vibration spectra of  $\text{Be}(\text{NH}_3)_4^{2+}$  and  $\text{Be}(\text{H}_2\text{O})_4^{2+}$  ions. Dokl. AN SSSR.  
160 no.2:383-386 Ja '65.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent  
AN SSSR (for Novoselova).

SIPAKOV, I.

Work ennobles man. Rab.i sial. 32 no.12:10 D '56. (MLRA 9:12)

1. Malgas "Leninski shlyakh," Shklovski rayen, Magileuskaya  
voblasts'.  
(Shklov District--Dayrying)

KLEKOVKIN, L.N. (Mogilevskaya oblast'); SIPAKOV, V.N., starshiy vrach.

Eliminating fascioliasis in livestock in Mogilev Province.  
Veterinariia 35 no.6:16-19 Je '58. (MIRA 11:6)

1. Machal'nik vetotdela oblast'khозупрвleniya (for Klekovkin).  
(Mogilev Province—Liver flukes)

PCROTOVA, G.A.; SIPAKOVA, M.S.

Geological interpretation of the deep magnetic anomalies  
of the Kola Peninsula. Zap. LGI 46 no.2:80-86 '63.  
(MIRA 17:6)

JINDRA, A.; LAGUSOVA, H.; SIPAL, Z.

Hydroxylation of mebrophenhydramine in vitro. Cesk. farm. 11 no.3:  
126-129 Mr '62.

1. Katedra biochemie Karlovy university, Praha a Katedra biochemie  
a mikrobiologie farmaceuticke fakulty University Komenskeho,  
Bratislava.

(ANTIHISTAMINICS chem)

CZECHOSLOVAKIA

Z. SIRAL and A. MINDRA (same affiliation as above)

"Study of Hydrolysis of Some Local Anesthetics in Liver Homogenate."

Prague, Československá Farmacie, Vol 12, No 1, Jan 1962; pp 29-31.

Abstract (English summary modified): Hydrolysis of procaine, tetracaine, dibucaine and pentethesine in rat liver homogenates: microsomal fraction has highest enzym. concentration; nuclei and mitochondria are less involved; cytoplasm inactive; rate parallels durations of activity of the drugs. Absorption spectrum, graph, 3 tables, 14 references; Czech. thesis, 13 Western.

KASSOWITZ, J.; KUTOVA, M.; SIPAL, Z.

Gold in protein fractions of the blood serum. Cas. lek. cesk.  
103 no.19:520-522 8 My'64

1. Vyzkumny ustav chorob reumatickych v Praze (reditel: prof.  
dr. F. Lenoch, DrSc.) a Katedra biochemie prirodovedecké fakulty  
KU [Karlovych universit] v Praze (vedouci: prof. dr. J. Kostir).

JINDRA, A.; SIPAL, Z.

Metabolism of drugs. Cesk. farm 13 no.8:419-424 O '64.

1. Katedra biochemie a mikrobiologie farmaceuticke fakulty,  
University Komenskeho, Bratislava.